user's manual
instrukcja obsługi

NVPT-111VTS
NVPT-111VT
NVPT-111VTP
NVPT-414V

NOVUS®

user's manual

NVPT-111VTS
NVPT-111VT
NVPT-111VTP
NVPT-414V

NOVUS®

INFORMATION

EMC (2004/108/EC) and LVD (2006/95/EC) Directives

CE Marking

Our products are manufactured to comply with requirements of following directives and national regulations implementing the directives:

- Electromagnetic compatibility EMC 2004/108/EC.
- Low voltage LVD 2006/95/EC with further amendment. The Directive applies to electrical equipment designed for use with a voltage rating of between 50VAC and 1000VAC as well as 75VDC and 1500VDC.

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WEEE Directive 2002/96/EC
Information on Disposal for Users of Waste Electrical and Electronic Equipment

This appliance is marked according to the European Directive on Waste Electrical and Electronic Equipment (2002/96/EC) and further amendments. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

The symbol on the product, or the documents accompanying the product, indicates that this appliance may not be treated as household waste. It shall be handed over to the applicable collection point for the waste electrical and electronic equipment for recycling purpose.
For more information about recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.

RoHS Directive 2002/95/EC

Concerning for human health protection and friendly environment, we assure that our products falling under RoHS Directive regulations, regarding the restriction of the use of hazardous substances in electrical and electronic equipment, were designed and manufactured in compliance with mentioned regulation. Simultaneously, we claim that our products were tested and do not contain hazardous substances exceeding limits which could have negative impact on human health or natural environment.

Information

The device, as a part of professional CCTV system used for surveillance and control, is not designed for self installation in households by individuals without technical knowledge.

The manufacturer is not responsible for defects and damages resulted from improper or inconsistent with user's manual installation of the device in the system.

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WARNINGS AND PRECAUTIONS

ATTENTION!

THE KNOWLEDGE OF THIS USER'S MANUAL IS AN INDESPENSIBLE CONDITION OF A PROPER TRANSCEIVER OPERATING. YOU ARE KINDLY REQUESTED TO FAMILIARIZE YOURSELF WITH THIS MANUAL BEFORE STARTING THE DEVICE.
THE MANUAL SHOULD BE KEPT FOR FUTURE USE.

CAUTION!

THE COVER MUSTN'T BE TAKEN OFF.
ANY SELF-REPAIRS MUSTN'T BE EXECUTED.
ALL REPAIRS CAN BE EXECUTED ONLY BY QUALIFIED STAFF OF THE AUTHORISED NOVUS SERVICE.

INFORMATION

All the data included in this manual are up to date at the moment of printing this manual. Novus Security Sp. z o.o. reserves the right to amend this manual. The producer reserves the right to modify parameters of the device and change its design without notice.

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SPECIFICATION

Model	NVPT-111VTS	NVPT-111VT	NVPT-111VTP	NVPT-414V
Type	Passive transmitter/receiver			
Video Input / Output	1xBNC,V_{p-p},75Ω	1xBNC,V_{p-p},75Ω	1xBNC,V_{p-p},75Ω	4xBNC,V_{p-p},75Ω
Bandwidth	12 MHz			
Transmission Distance Color Signal	Up to 400 m (only passive devices), Up to 1200 m(up to 1000 m for NVPT-111VTS) - with passive transmitter and active receiver NVPT-A111VRH.			
Transmission Distance B/W Signal	Up to 600 m (only passive devices), Up to 2000 m(up to 1000 m for NVPT-111VTS) - with passive transmitter and active receiver NVPT-A111VRH			
Dimensions (mm)	61 (L) x 19 (W) x 15,3(H)	60 (L) x 20 (W) x 21(H)	20(L) x 21(W) x 280(H) (with 230mm coaxial cable)	110(L) x 25(W) x 78(H)
Weight	60 g	60 g	100 g	200 g
Case	Black ABS			
Cable Recommended	CAT 5 UTP Cable (Ø=0.5mm)			

1. SPECIFICATION

Notice: Maximum transmission distances are valid when only one pair is used. When more than one pair in the cable is used maximum distances might be slightly shorter.

Notice: Maximum transmission distances are given for total cable length, twisted-pair plus possible coaxial cable used e.g. as a patch-cords. The above distances, are given for camera monitor connection. When DVR, multiplexer or quad is also used distance might be slightly shorter.

Notice: It is impossible to extend the above transmission distances by cascade connection of those passive devices. In order to achieve longer distances active devices must be used.

Notice: With transmission over long distances slight image brightness and sharpness loss might be noticeable. It's a normal phenomenon and it can't be considered as a device malfunction.

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2. FEATURES

NVPT-111VTS

- Single-channel video transceiver for twisted-pair;
- The passive device – no power supply required;
- Connectors: 1 x BNC male, 2-pin clamp;
- Video transmission distances: b/w signal up to 600m and color signal up to 400m using only passive devices or 1000m using passive transmitter and active receiver NVPT-A111VRH;
- Built-in impedance coupler and noise filter serve as the additional protection against interference.

NVPT-111VT

- Single-channel video transceiver for twisted-pair;
- The passive device – no power supply required;
- Connectors: 1 x BNC male, 2-pin screw terminal, RJ45;
- Video transmission distances: b/w signal up to 600m and color signal up to 400m using only passive devices or 1200m and 2000 using passive transmitter and active receiver NVPT-A111VRH;
- Built-in impedance coupler and noise filter serve as the additional protection against interference.

NVPT-111VTP

- Single-channel video transceiver for twisted-pair;
- The passive device – no power supply required;
- Connectors: 1 x BNC male, 2-pin screw terminal, RJ45;
- Video transmission distances: b/w signal up to 600m and color signal up to 400m using only passive devices or 1200m and 2000 using passive transmitter and active receiver NVPT-A111VRH;
- Built-in impedance coupler and noise filter serve as the additional protection against interference;
- 230mm coaxial cable, ideal to connect with the image processors which have multi-BNC connectors (multiplexer, DVR, matrix switcher)

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FEATURES

NVPT-414V

- Four-channel video transceiver for twisted-pair;
- The passive device – no power supply required;
- Connectors: 4 x BNC male, 8-pin screw terminal, RJ45; ;
- Video transmission distances: b/w signal up to 600m and color signal up to 400m using only passive devices or 1200m and 2000 using passive transmitter and active receiver NVPT-A111VRH;
- Built-in impedance coupler and noise filter serve as the additional protection against interference;

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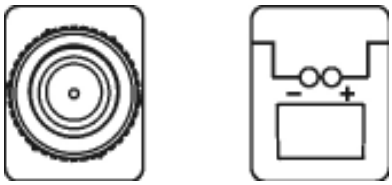
3. INSTALLATION

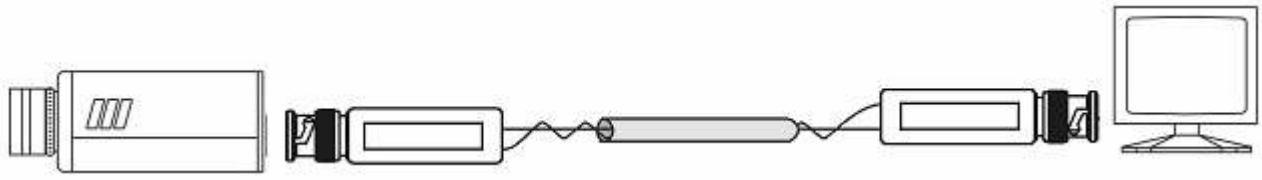
NVPT-111VTS

Panel view

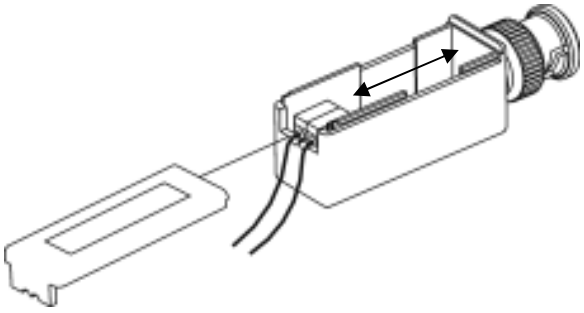


Front Rear

NVPT-111VTS transceiver utilize only one pair of wires for video transmission. Please pay attention to proper polarization while making connections. Pins described as "**+**" from a transmitter should be connected to pins described as a "**+**" on a receiver.



To connect wires to the 2-pin clamp the box must be couched like below.



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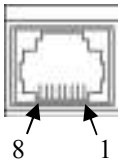
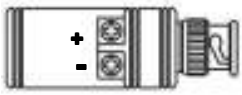
INSTALLATION

NVPT-111VT / NVPT-111VTP



RJ-45 connector view with a pin description



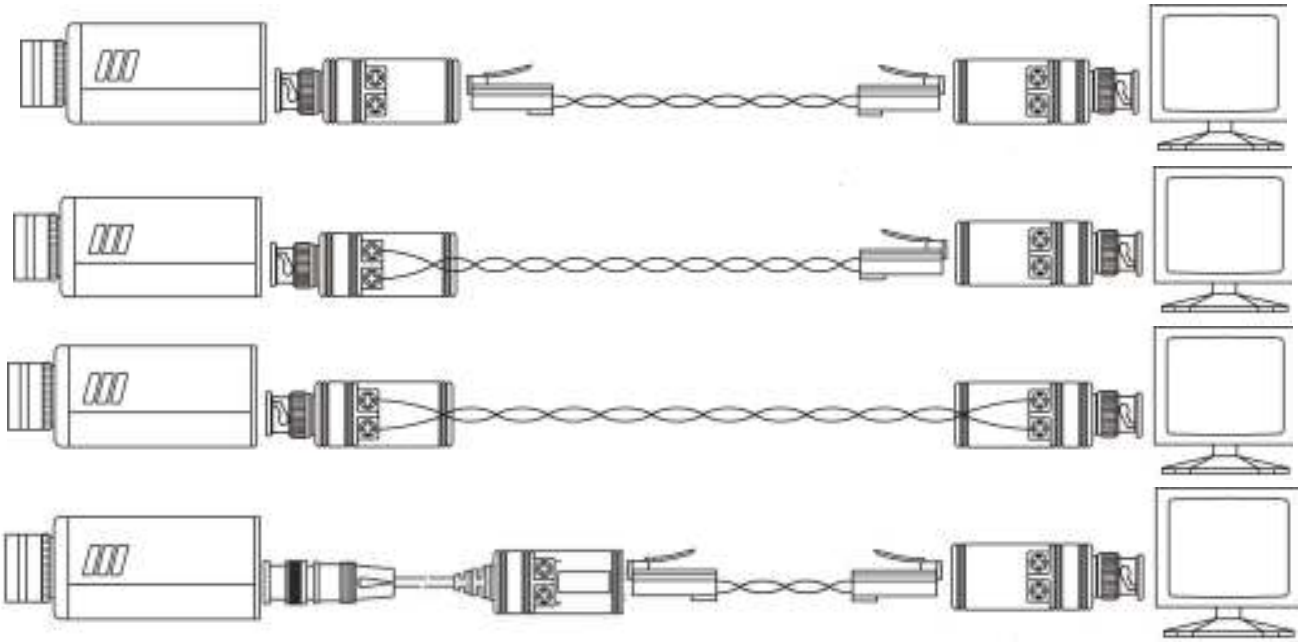
Screw terminal view with pin description

Pin 7	<---->	"**+**"
Pin 8	<---->	"**-**"

NVPT-111VT / NVPT-111VTP transceivers utilize only one pair of wires for video transmission. Please pay attention to proper polarization while making connections. Pins described as "**+**" from a transmitter should be connected to pins described as a "**+**" on a receiver.

Devices are equipped with screw terminal and RJ-45 connector as well.

While making connection user can choose convenient connector type. It is possible to "mix" connector types while making connection as long the proper polarization is kept.



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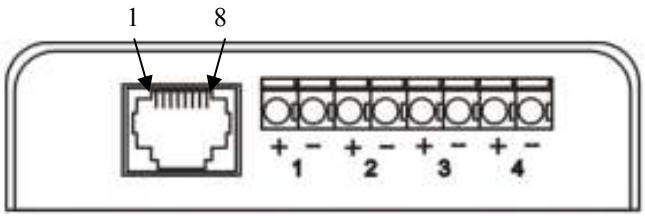
INSTALLATION

NVPT-414V



RJ-45 and clamp connector view with a pin description

Pin 1	<---->	"**+**" channel 1
Pin 2	<---->	"**-**" channel 1
Pin 3	<---->	"**+**" channel 2
Pin 6	<---->	"**-**" channel 2
Pin 4	<---->	"**+**" channel 3
Pin 5	<---->	"**-**" channel 3
Pin 7	<---->	"**+**" channel 4
Pin 8	<---->	"**-**" channel 4

NVPT-414V transceivers utilize one pair of wires for one video channel transmission. Please pay attention to proper polarization while making connections. Pins described as "**+**" from a transmitter should be connected to pins described as a "**+**" on a receiver.

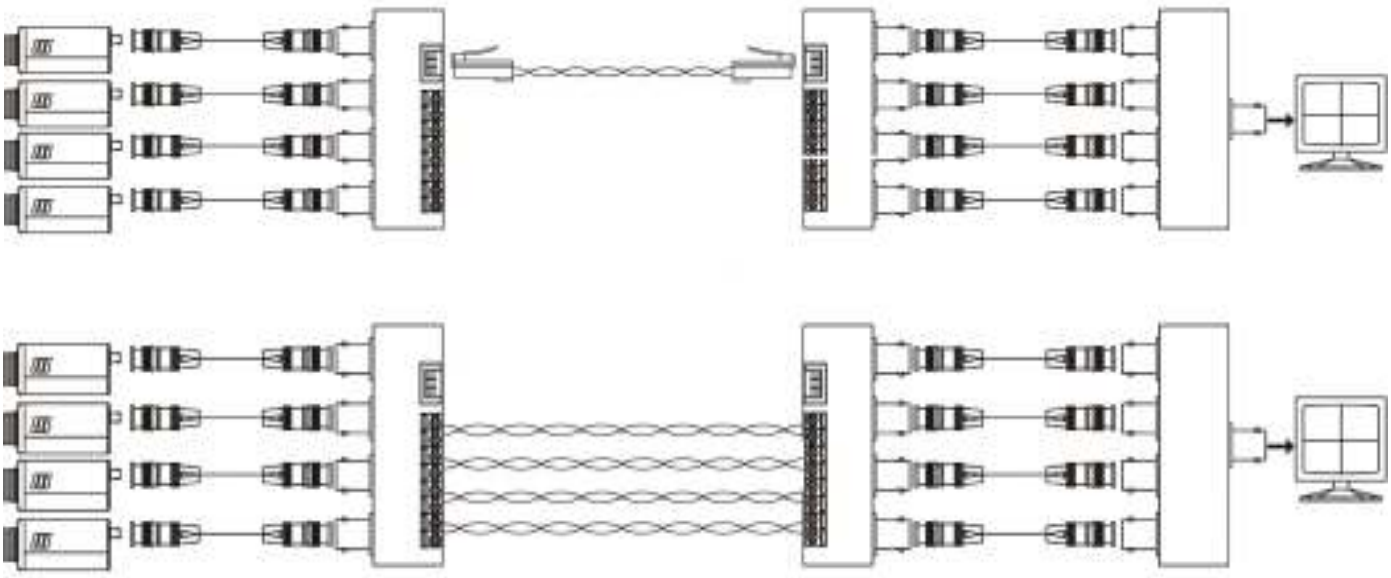
Each channel in transmitter should be connected to corresponding channel in receiver (1st to 1st, 2nd to 2nd and so on).

Devices are equipped with screw terminal and RJ-45 connector as well.

While making connection user can choose convenient connector type.

It is possible to "mix" connector types while making connection as long the proper polarization is kept.

It is also possible to "mix" devices types, 4 and 1 channel as long the proper polarization is kept.



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